

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 13. (*Cancelled*).

14. (*Currently Amended*) The system of claim ~~13~~ 15, wherein the communications link comprises at least one of unshielded twisted pair cable, coaxial cable, and fiber optic cable.

15. (*Currently Amended*) ~~The A system of claim 13, further~~ comprising:  
a driver device adapted to transmit a data signal, the data signal having transmission rates at least as high as 44.736 Mbps;  
a communications link coupled to the driver device and the receiver device,  
the data signal being susceptible to distortions of phase and amplitude during transmission across the communications link, the communications link being at least 18,000 feet long; and  
a receiver system adapted to receive, regenerate and transmit the data signal,  
the receiver system ~~includes~~ including:  
a the receiver device adapted to receive the potentially distorted data signal from the communications link, and  
a processor electrically coupled to the receiver device and adapted to receive the distorted data signal from the receiver device, regenerate the data signal to compensate for the effects of the communications link on the data signal, and output the regenerated data signal.

16. (*Original*) The system of claim 15, wherein the receiver system further comprises a driver device electrically coupled to the processor and adapted to transmit the regenerated data signal to a subscriber.

17. (*Original*) The system of claim 15, wherein the receiver system further comprises a driver device electrically coupled to the processor and adapted to transmit the regenerated data signal to a central node.

18. (*Currently Amended*) The system of claim ~~13~~ 15, wherein the data signal comprises digitally encoded data signal.